

17th Street and London Avenue Canals

The levee at the 17th Street Canal was built atop soils that included a layer of soft, organic soil called peat. At the 17th Street Canal breach, water traveling through the peat layer may have weaked the levee's foundation, investigators say. The levees along the London Avenue Canal failed in a similar fashion.

- Water seeps through soil levees under normal conditions. During the storm, as water rose in the canal, water pressure increased, and seepage increased.
- Peat is a weak soil. Water seeping into the peat layer had an easy path under the levee and weakened both the peat layer and the soils above it.
- Water began to create a tunnel in the soils above the peat, at the base of the levee. The base weakened and washed away.

The floodwall and levee could no longer resist the force of the water in the canal. Both slid 35 feet into the neighborhood, and water raced in. Steel pilings prevent seepage and provide support for the concrete floodwall. But at the site of the breach, the steel pilings did not penetrate through the peat layer, investigators say.

















